

REPORT ON BOILERS.

No. 2590^B

MON. 13 JAN 1908

Received at London Office

Date of writing Report 11th January 1908 When handed in at Local Office

Port of Haare

No. in Survey held at Haare Date, First Survey 3rd January 1907 Last Survey 5th January 1908

Reg. Book. 59 on the Steel Screw Steamer "Colbert" (Number of Visits 19) Gross 5394.10 Tons Net 3410.70

Master J. Castan 90-08 Built at Haare By whom built Forges & Chantiers When built 1907

Engines made at Haare By whom made Forges & Chantiers when made 1907

Boilers made at Haare By whom made Forges & Chantiers when made 1907

Nominal Registered Horse Power 478 Owners Engine Protos Port belonging to Haare

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel W. Schulz-Knauch, Eisen & Blech

(Letter for record (5)) Total Heating Surface of Boilers 650 sq. feet Is forced draft fitted No. No. and Description of Boilers on horizontally cylindrical Working Pressure 100 Tested by hydraulic pressure to 185 Date of test 27.8.07

No. of Certificate 57 Can each boiler be worked separately ✓ Area of fire grate in each boiler 28 sq. feet No. and Description of safety valves to each boiler (2) two with springs Area of each valve 1.92 Pressure to which they are adjusted 100

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No.

Smallest distance between boilers or uptakes and bunkers on vertical 2.6 Mean dia. of boilers 9.5 1/4 Length 8.10 1/4

Material of shell plates Steel Thickness 2 1/32 Range of tensile strength 29 to 31 Are the shell plates welded or flanged flanged

Descrip. of riveting: cir. seams all double long. seams lopped treble Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 4 1/4

Lap of plates on width of overlaps 6 3/4 Per centages of strength of longitudinal joint rivets 75 Working pressure of shell by rules 110 Size of manhole in shell 15 3/4 x 11 7/8 Size of compensating ring 3 1/2 - 2 1/2 thickness No. and Description of Furnaces in each boiler (2) two plain Material Steel Outside diameter 34 Length of plain part 80 3/4 Thickness of plates top 5/8 bottom 5/8

Description of longitudinal joint lopped ring with No. of strengthening rings ✓ Working pressure of furnace by the rules 125 Combustion chamber plates: Material Steel Thickness: Sides 19 1/32 Back 19 1/32 Top 19 1/32 Bottom 19 1/32 Pitch of stays to ditto: Sides 8 Back 8 & 9

Top 7 1/8 x 10 1/2 If stays are fitted with nuts or riveted heads nutted Working pressure by rules 125 Material of stays Steel Diameter at smallest part 1 3/8 Area supported by each stay 34 Working pressure by rules 130 End plates in steam space: Material Steel Thickness 7/8

Pitch of stays 17 3/4 How are stays secured double nuts Working pressure by rules 125 Material of stays Steel Diameter at smallest part 2 1/32

Area supported by each stay 144 Working pressure by rules 140 Material of Front plates at bottom Steel Thickness 7/8 Material of Lower back plate Steel Thickness 7/8 Greatest pitch of stays on only Working pressure of plate by rules 130 Diameter of tubes 3 1/4

Pitch of tubes 4 3/8 Material of tube plates Steel Thickness: Front 7/8 Back 2 1/32 Mean pitch of stays 8 3/4 Pitch across wide water spaces 1 3/16 - 1-2 Working pressures by rules 140 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 & 5/8 Length as per rule 22 1/4 Distance apart 10 1/2 Number and pitch of Stays in each 2 - 7 1/8

Working pressure by rules 140 Superheater or Steam chest; how connected to boiler ✓ Can the superheater be shut off and the boiler worked separately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓

If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓

Working pressure of end plates ✓ Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

A. Bricard LE DIRECTEUR DE L'EXPLOITATION The foregoing is a correct description, Manufacturer.

Dates of Survey During progress of 1907. Jan. 3 March. 29. Ap. 26. May 21 July 4. 17 Aug 20-27 Is the approved plan of boiler forwarded herewith Yes while building 1907 Aug. 30. Sep. 17. 26. Oct 5. 14. 25. Nov. 19. 23 Dec. 12. 21 1908. Jan. 5. Total No. of visits 19

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. Secretary letter dated 3rd January (E) 1907

This donkey boiler has been specially surveyed & tested as per Rules-Requirements, in accordance with approved plan of 3rd January 1907. The materials used tested at works, which is in Swedish - Marin Steel, were found in good and malleable quality; The workmanship was satisfactory. In my opinion she is merit for to be classed and inscribed in the Register-Book.

Survey Fee ... \$ 52.50 : } When applied for, 10th January 1908
Travelling Expenses (if any) \$ 14.50 : } When received, 10th January 1908



A. Cartier
Engineer-Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. 17 JAN 1908

Committee's Minute
Assigned

